

FIG.1

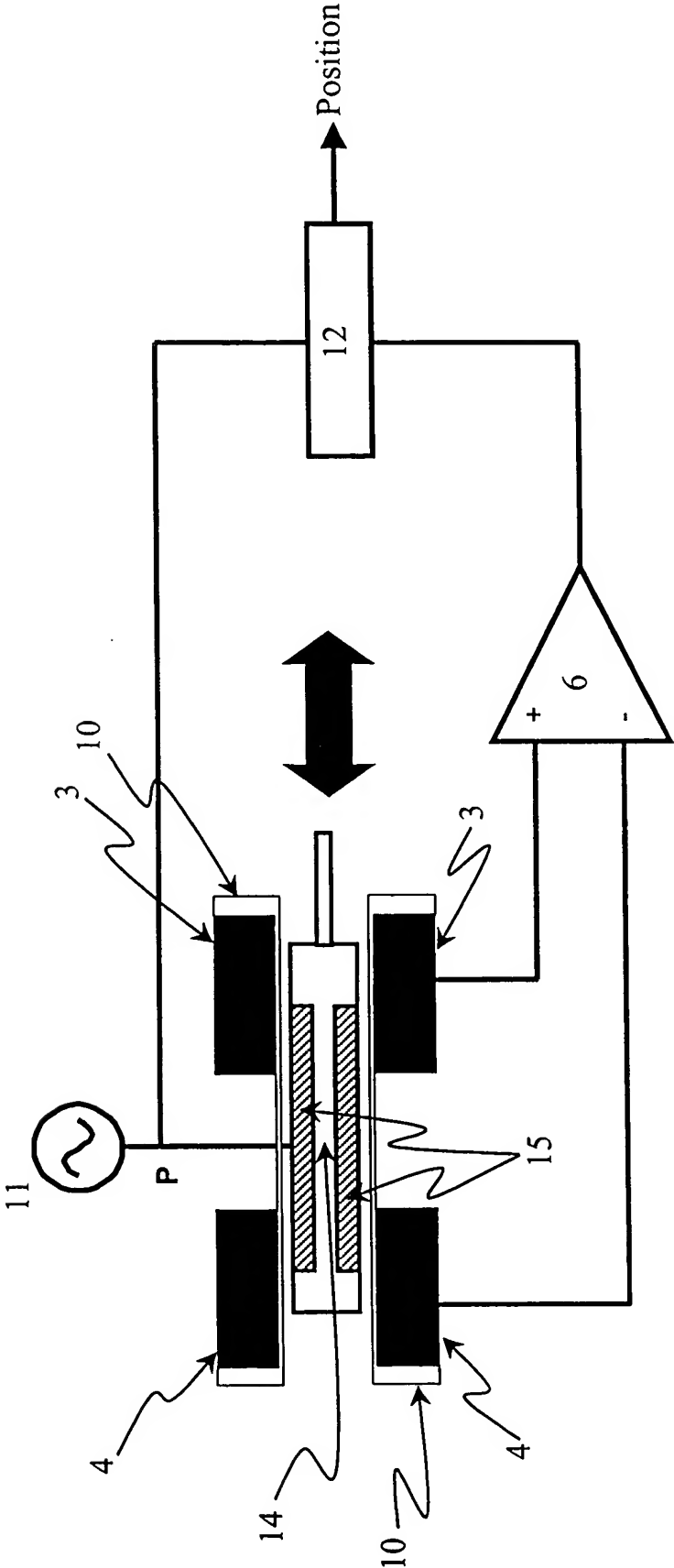


FIG.2

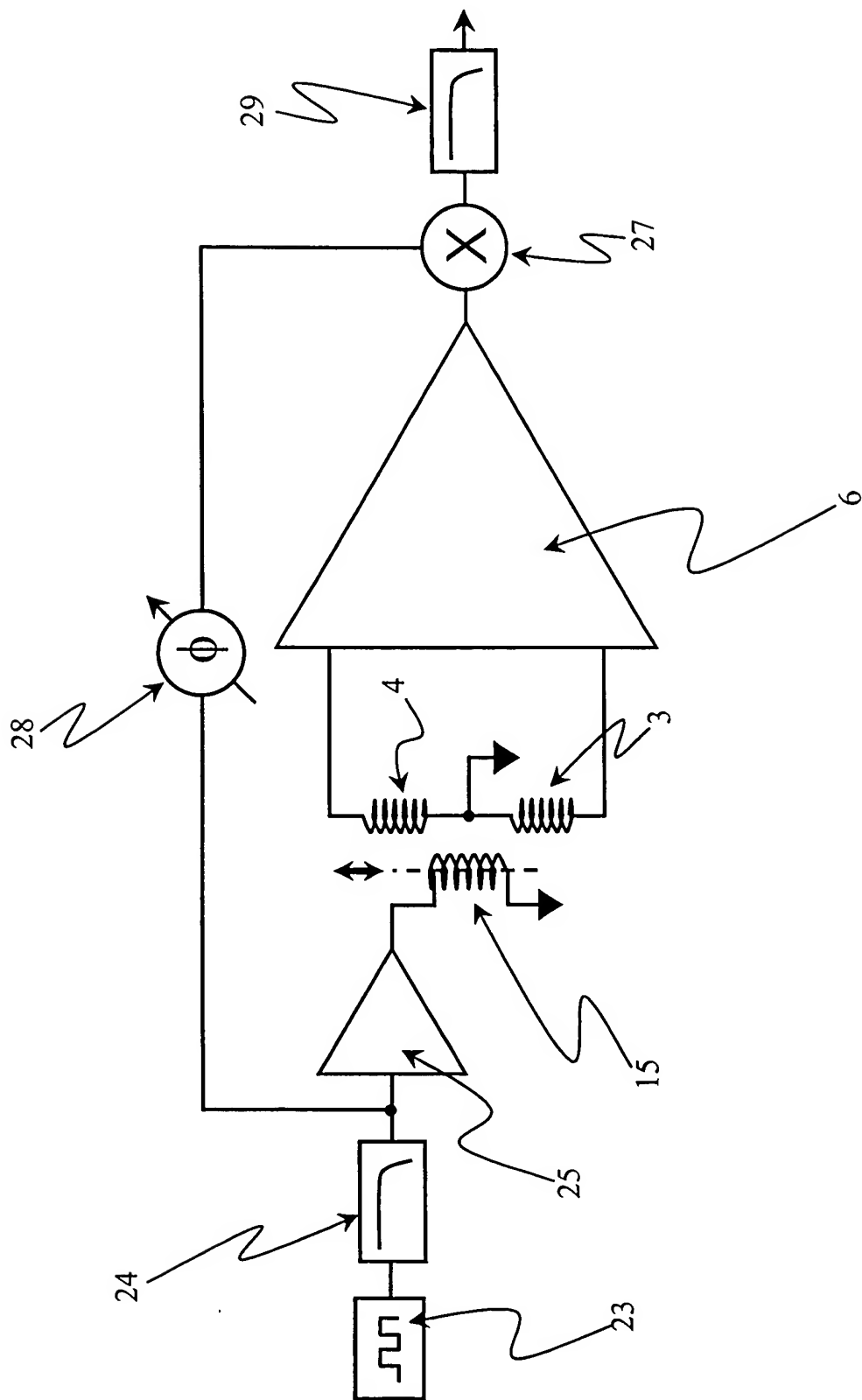


FIG.3

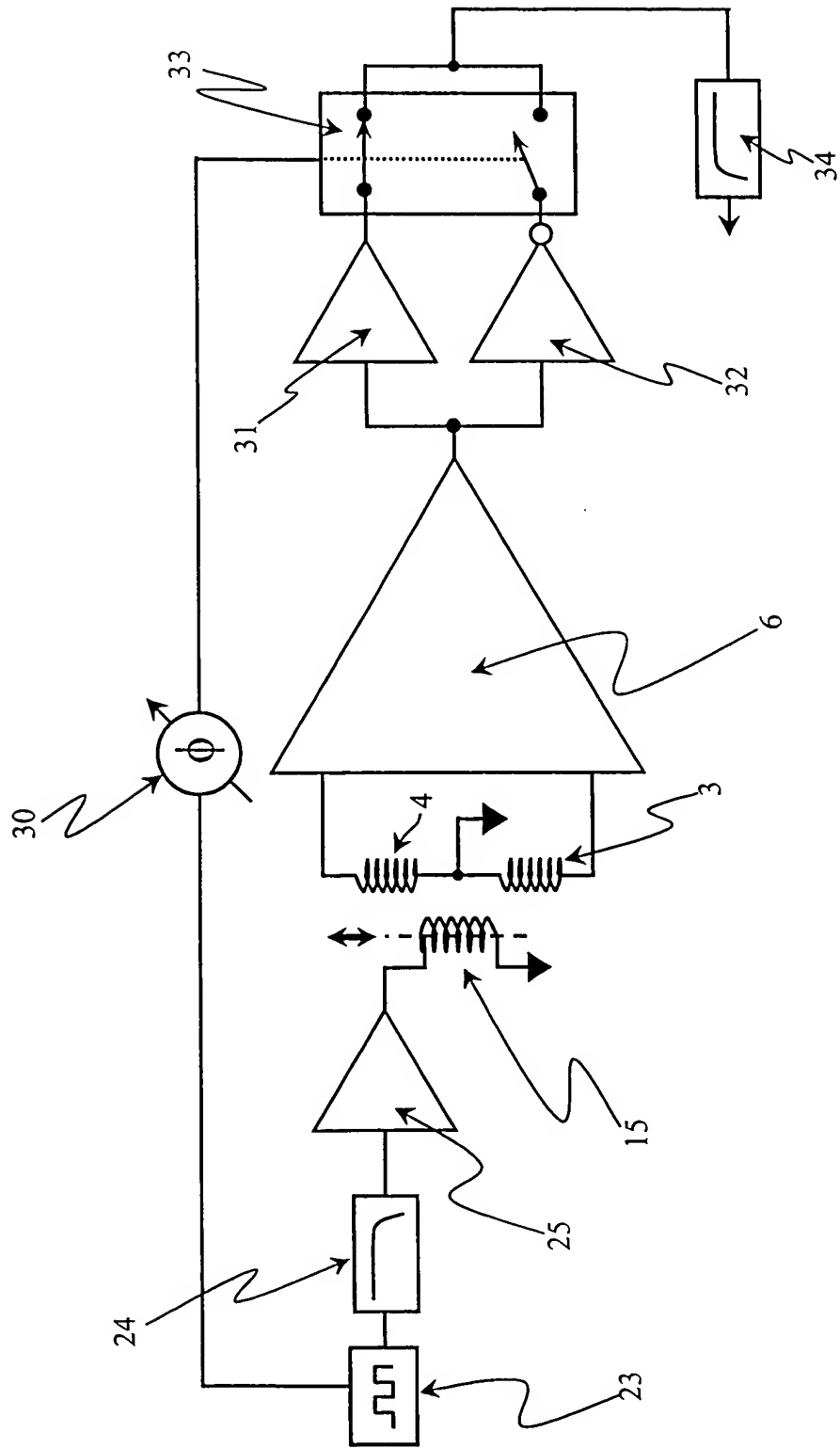


FIG. 4

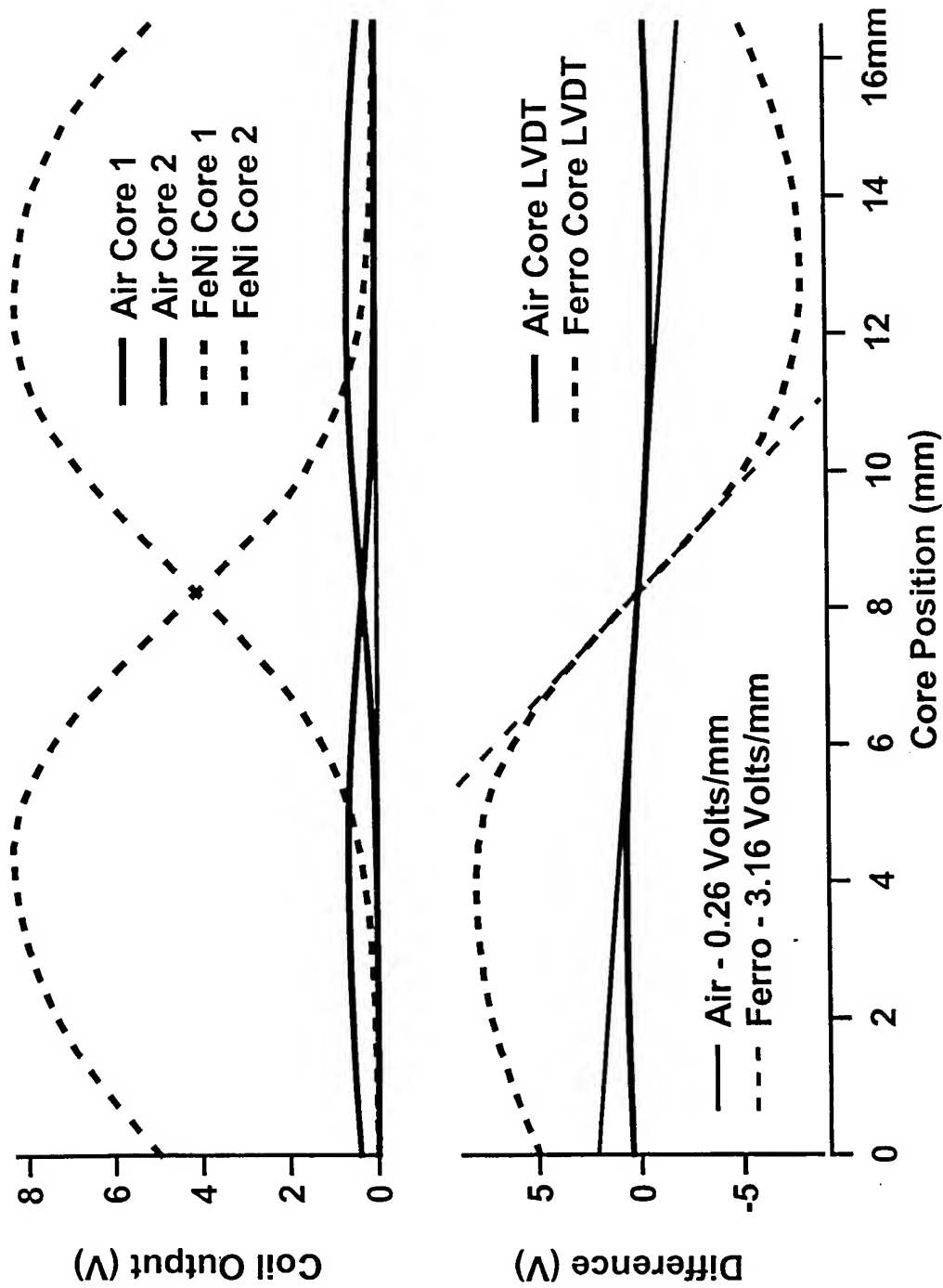


FIG.5

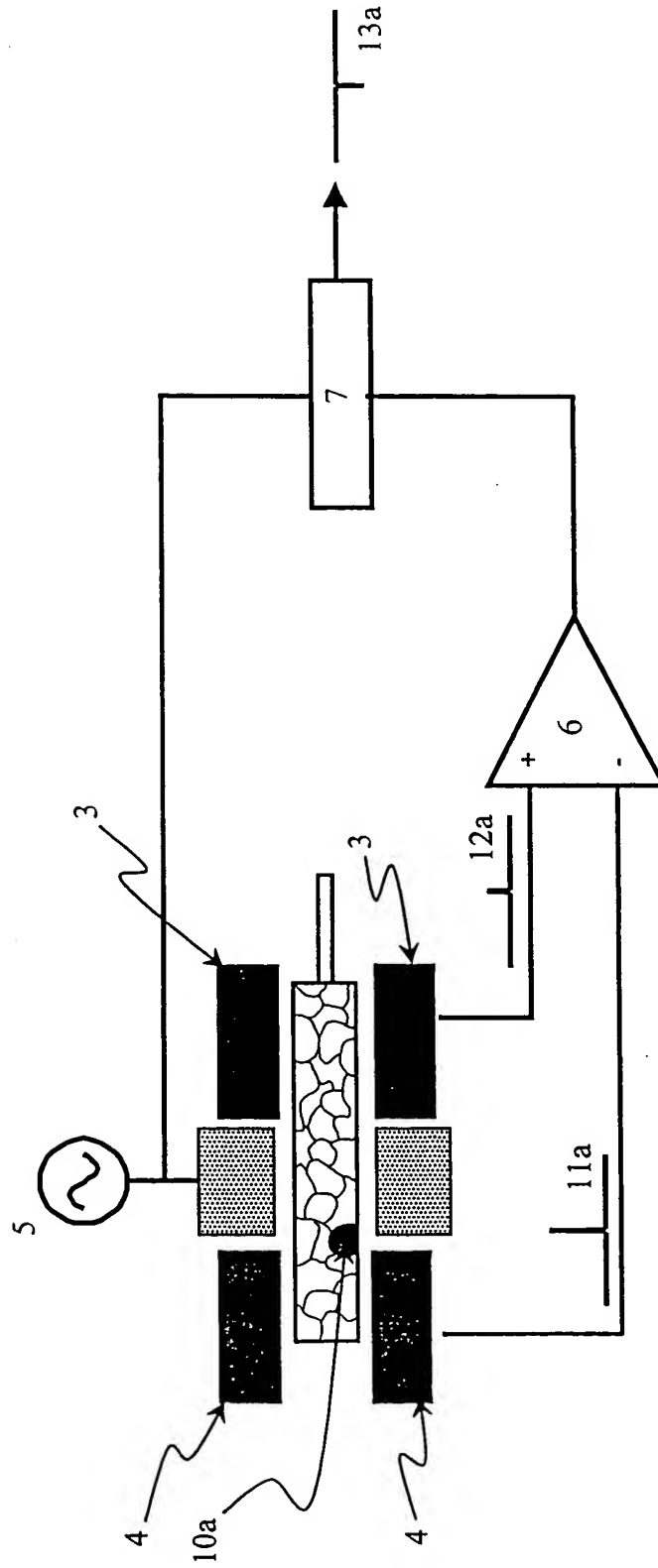


FIG. 6

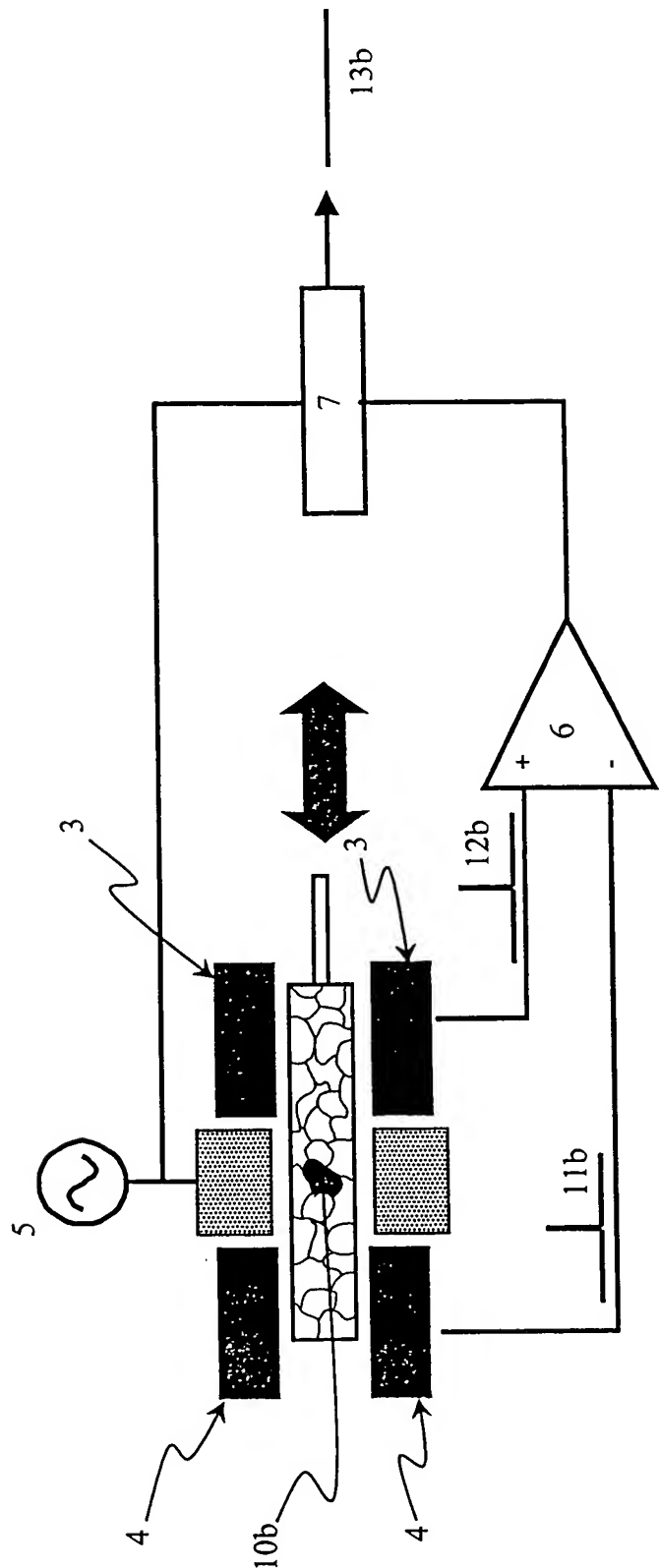
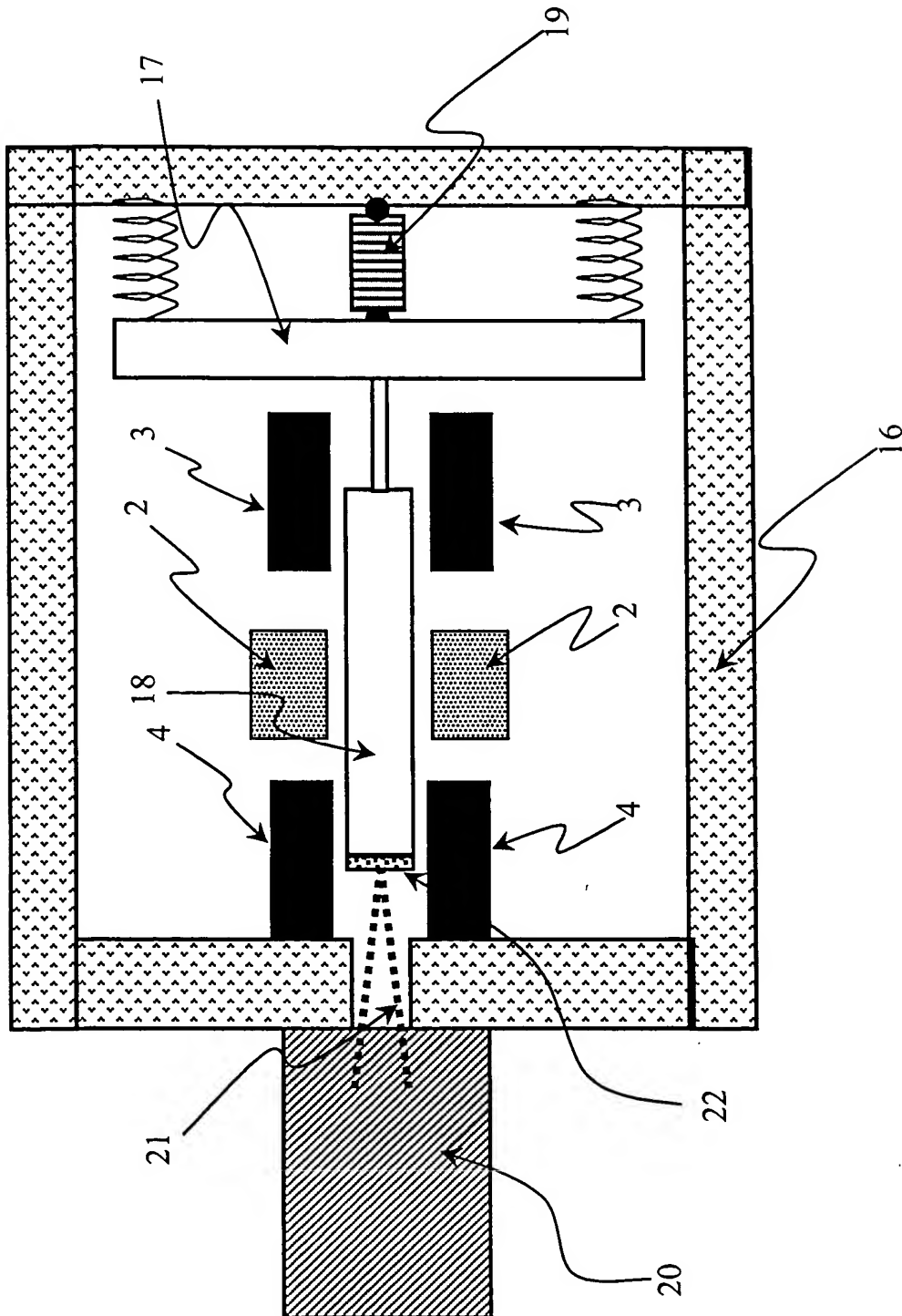


FIG.7





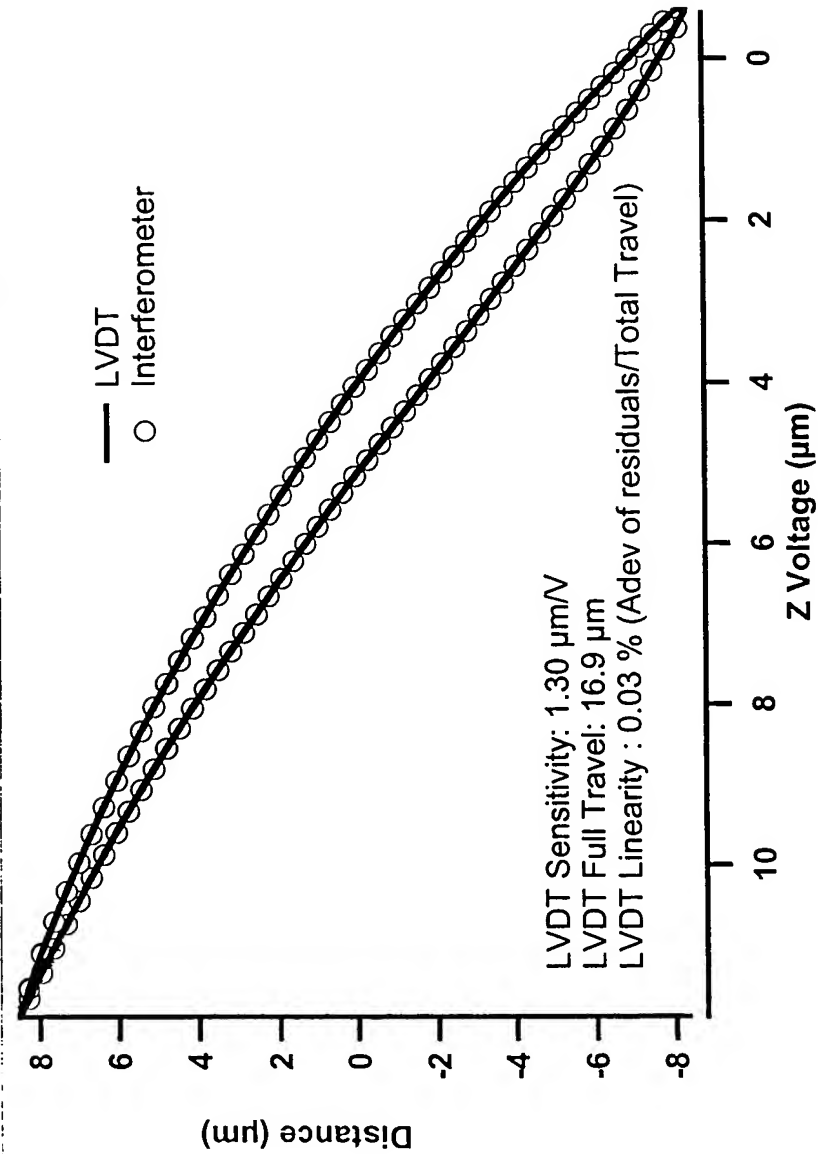


FIG. 9

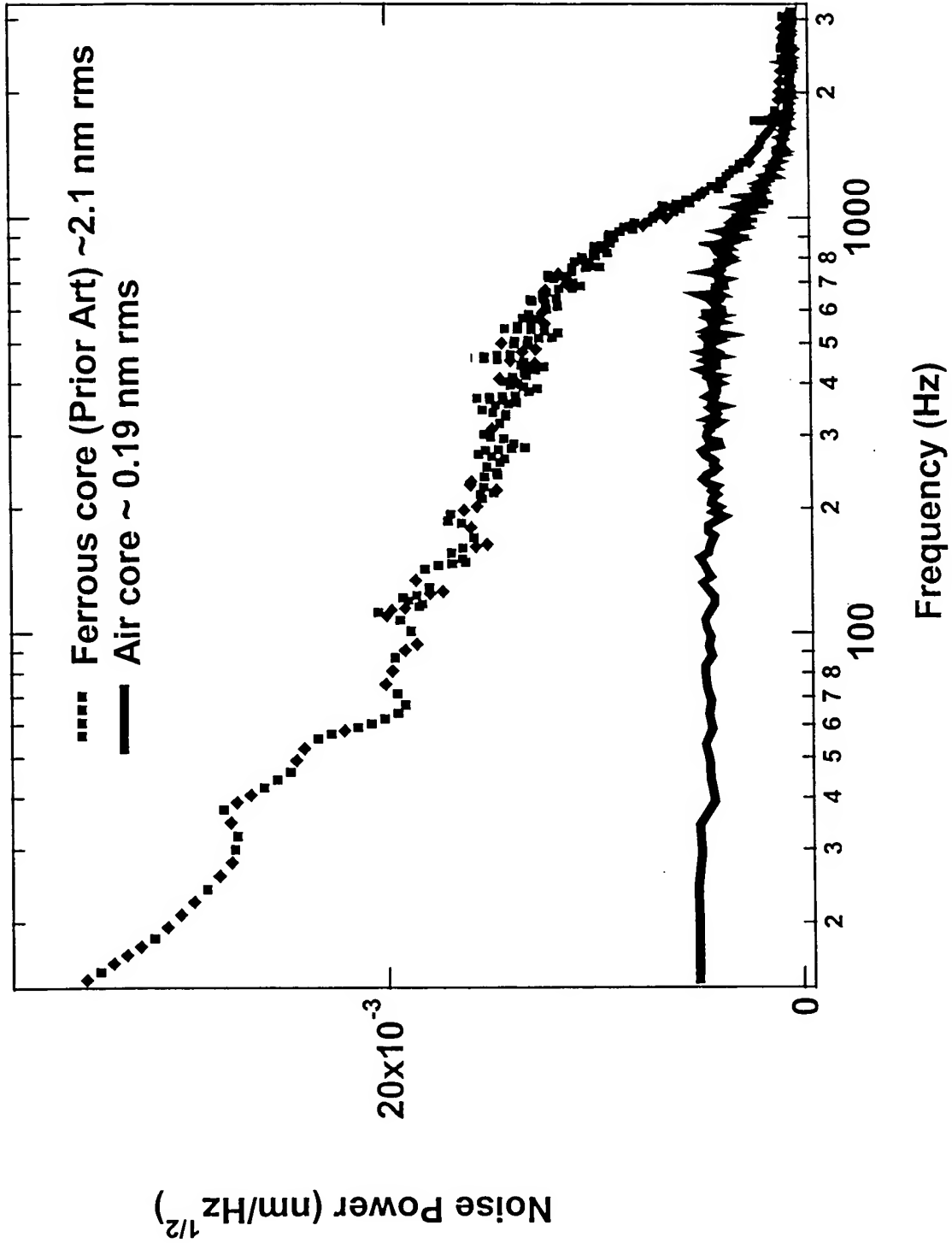


FIG. 10

Noise vs. Time for ferromagnetic and non-ferromagnetic cores

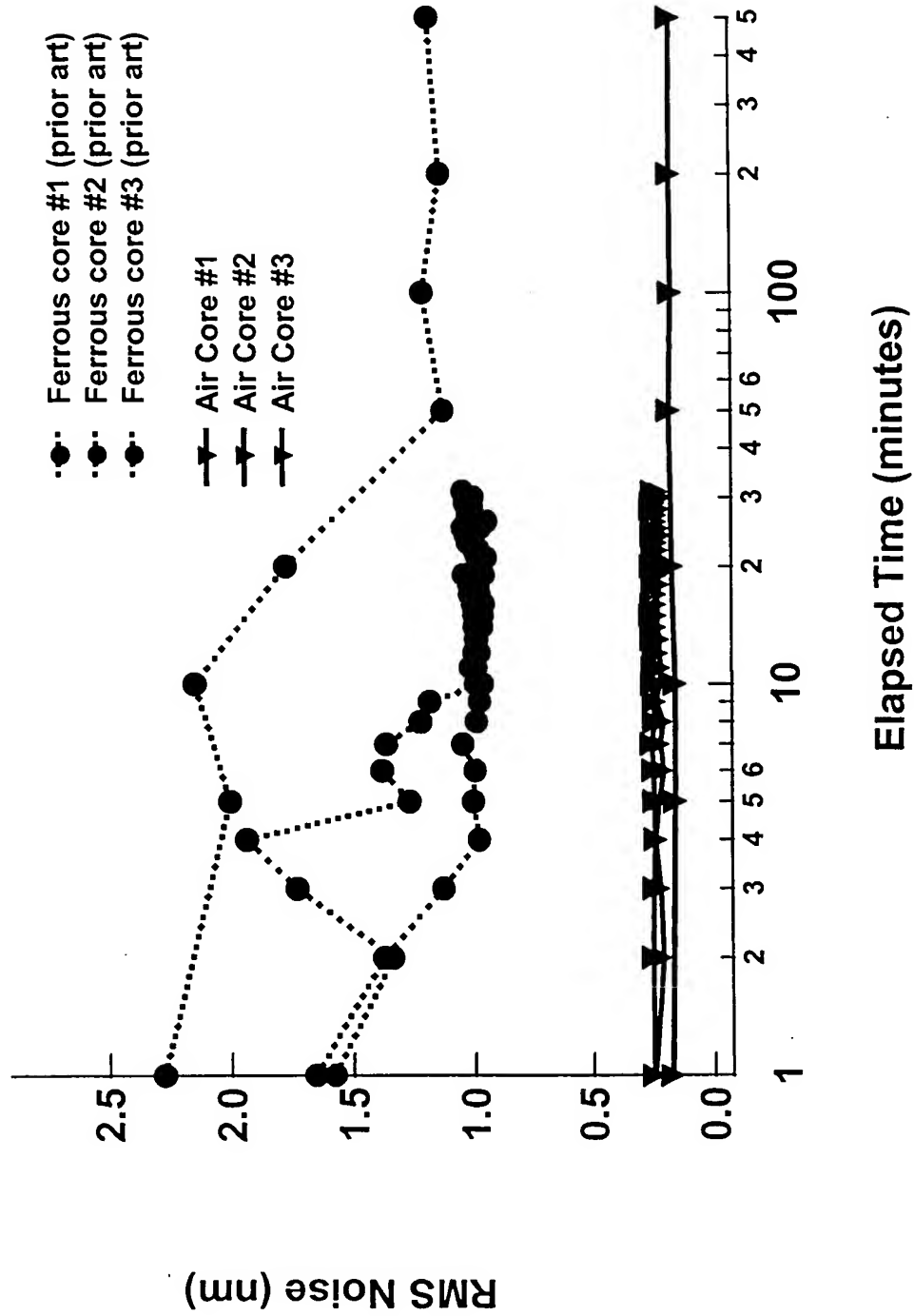


FIG.11

Positional Noise vs. Primary Coil Drive Amplitude

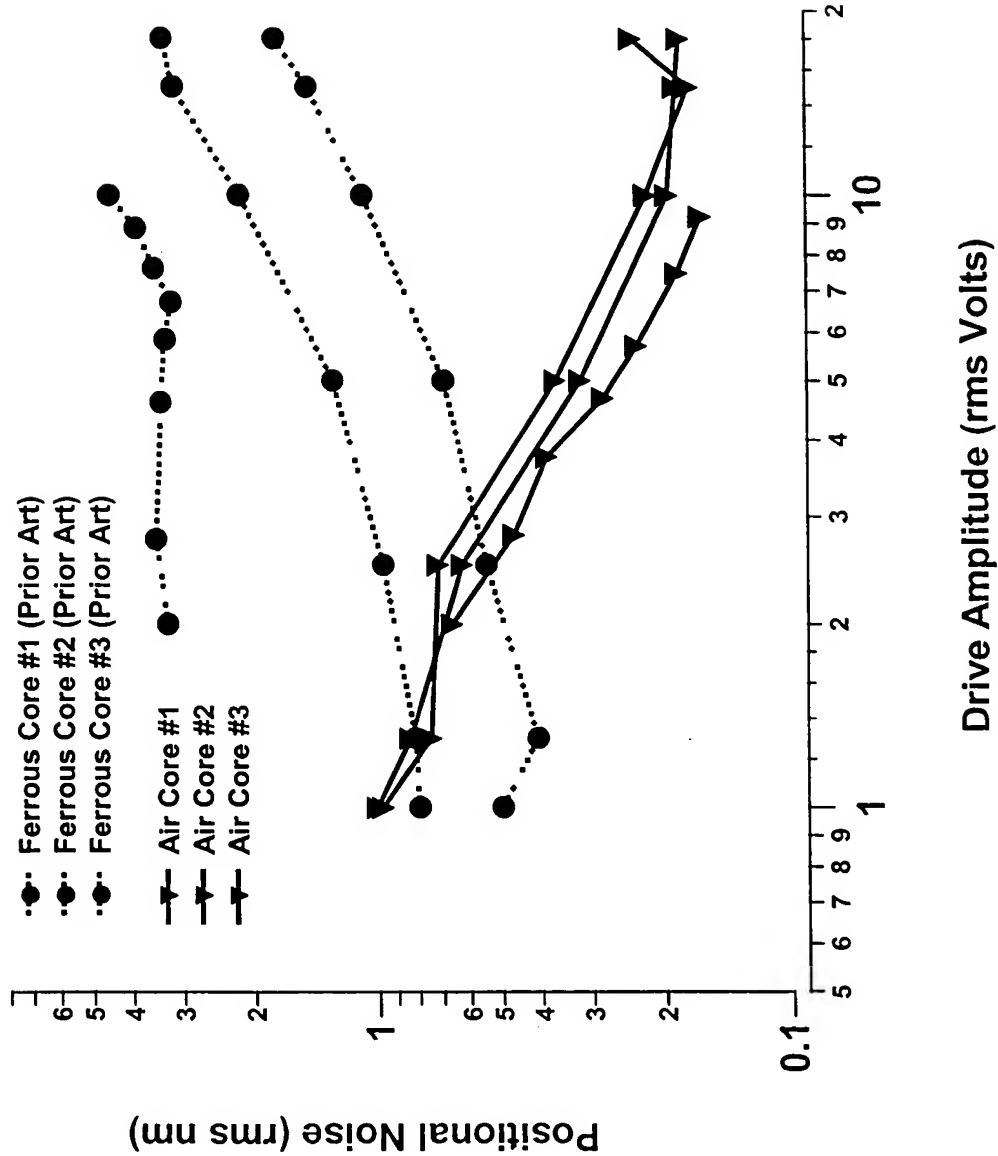


FIG. 12

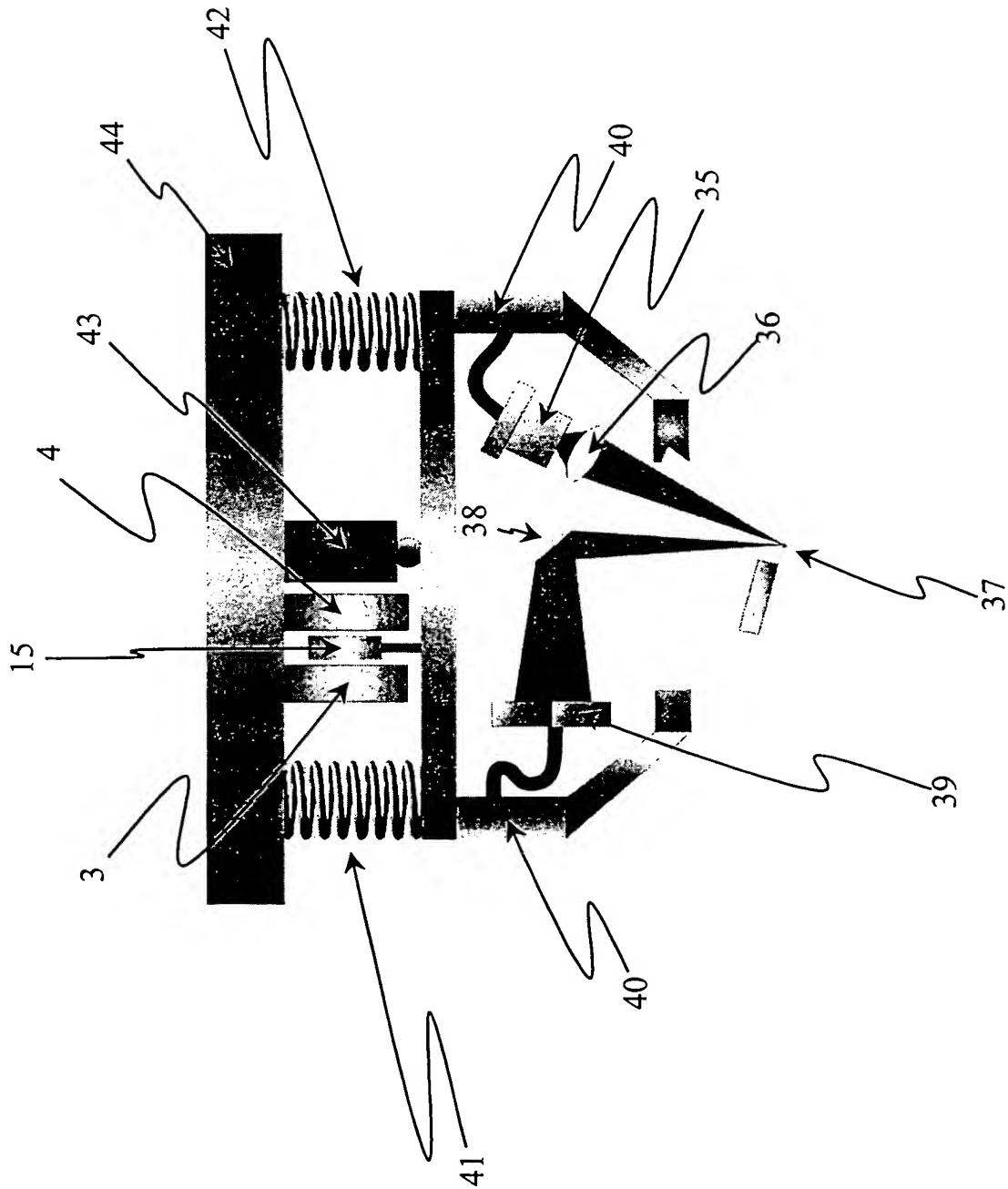


FIG. 13

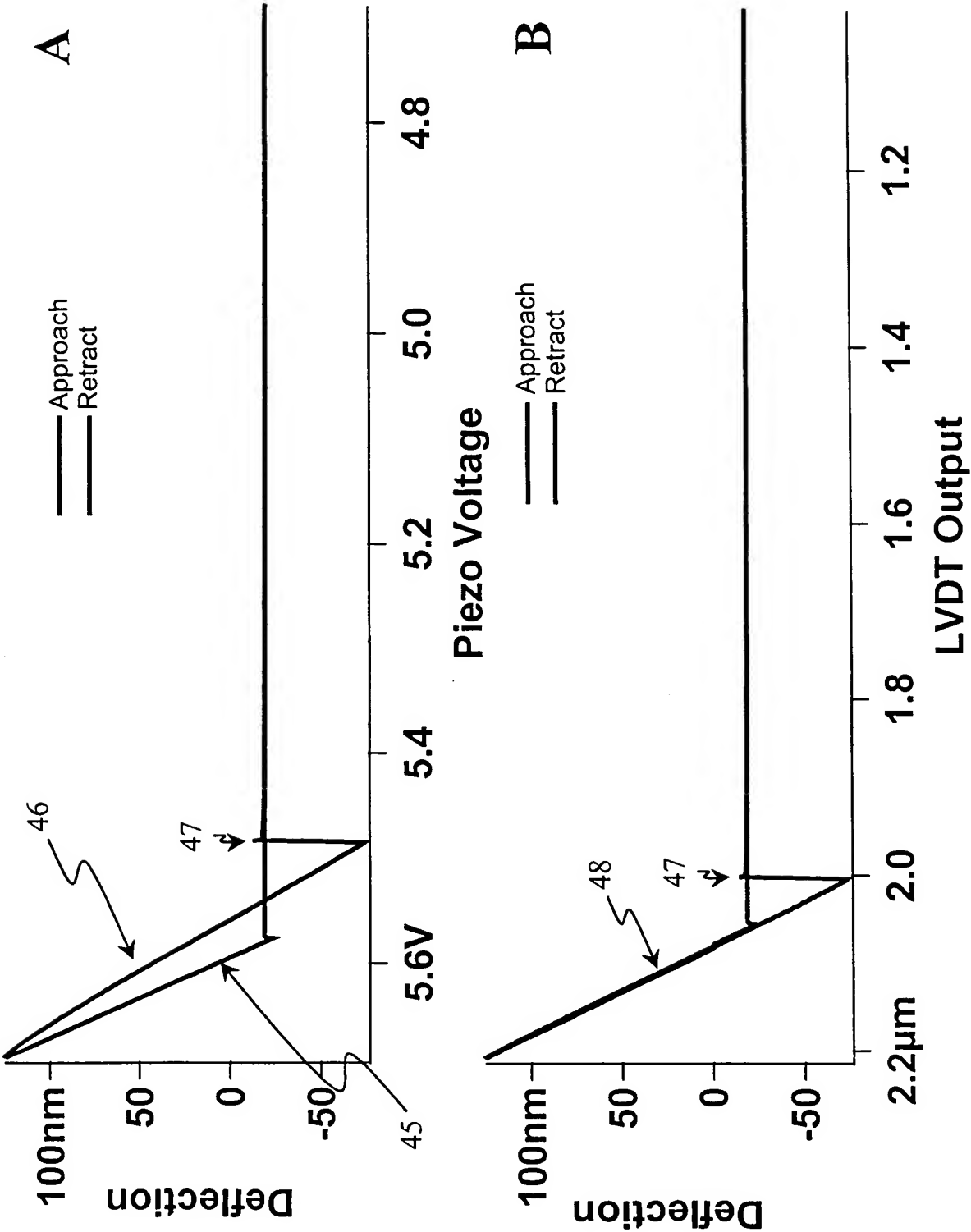


FIG. 14

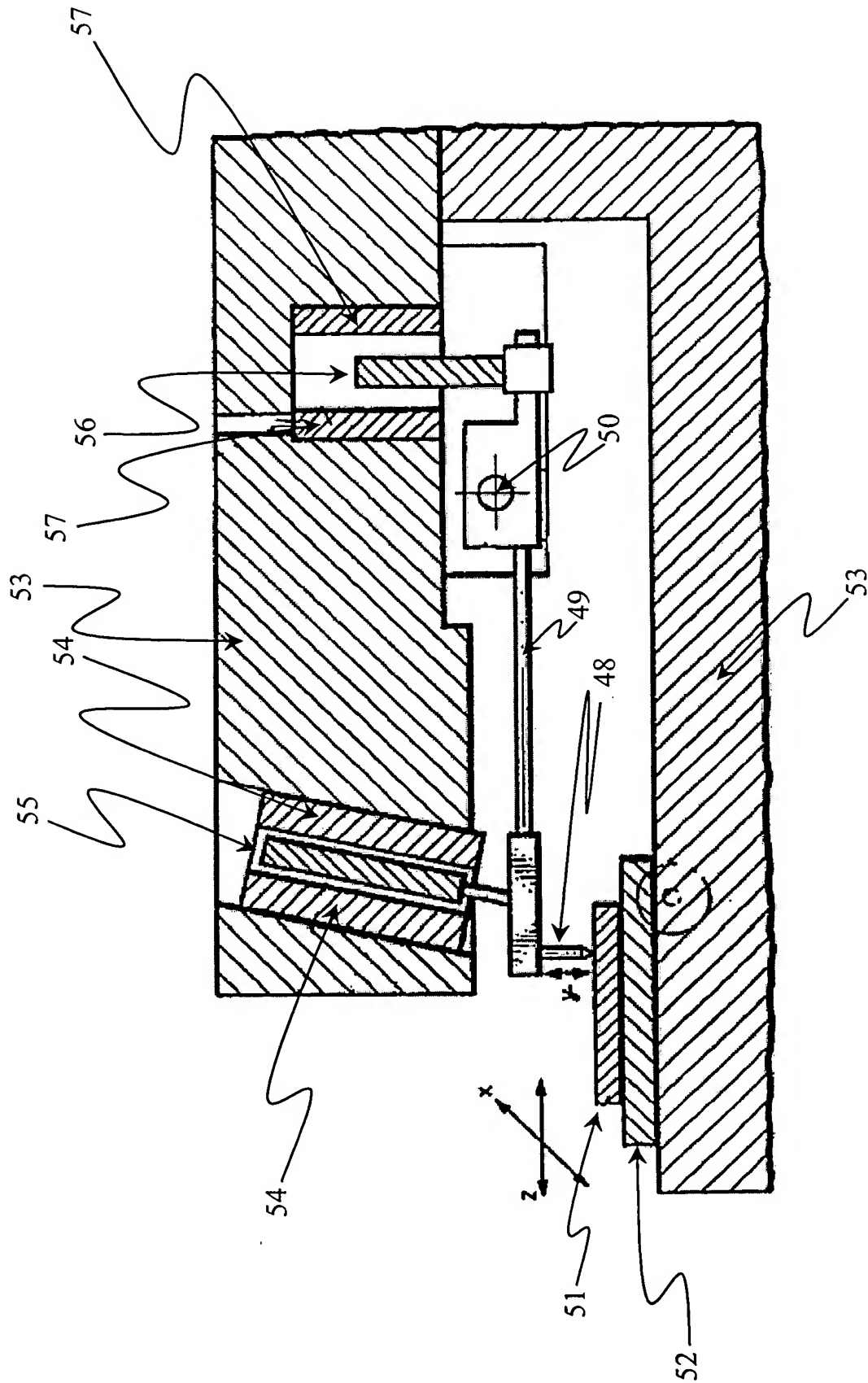


FIG. 15

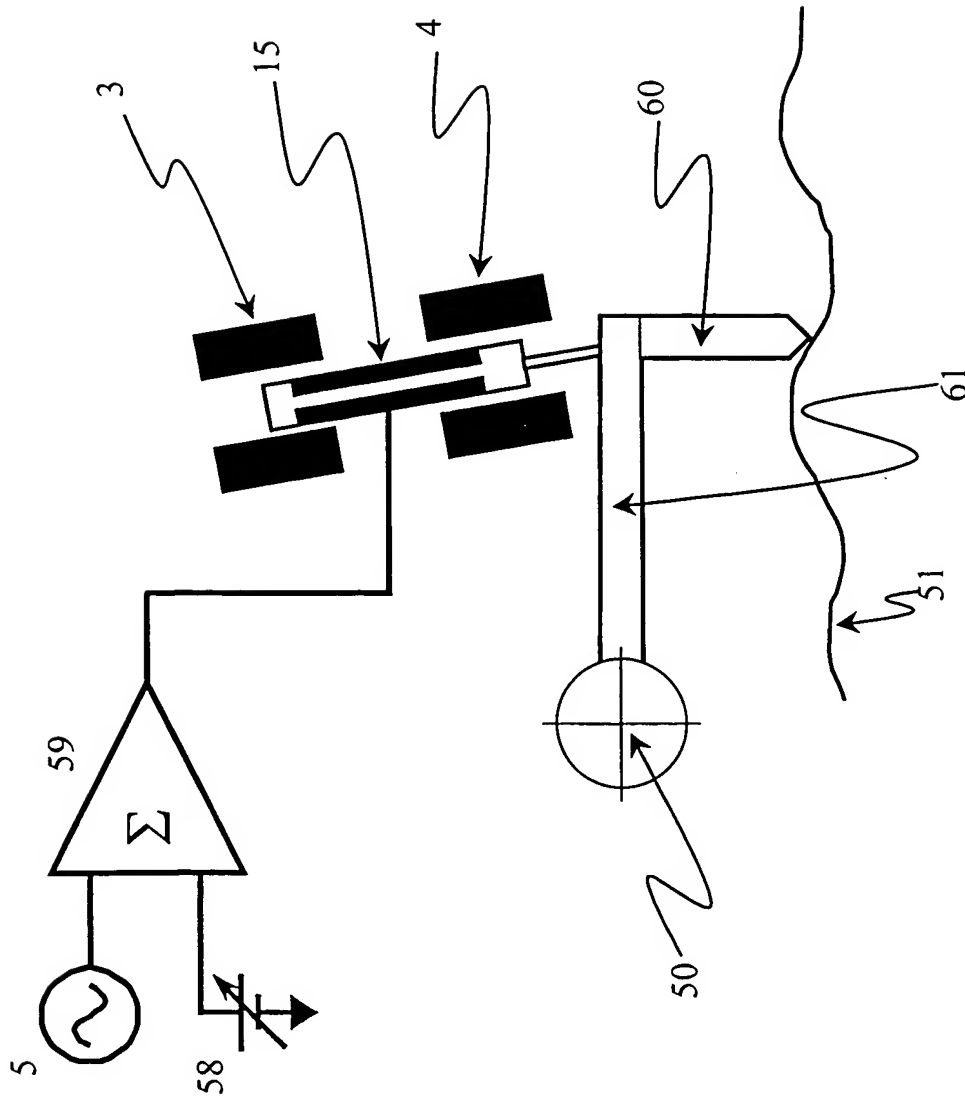


FIG. 16



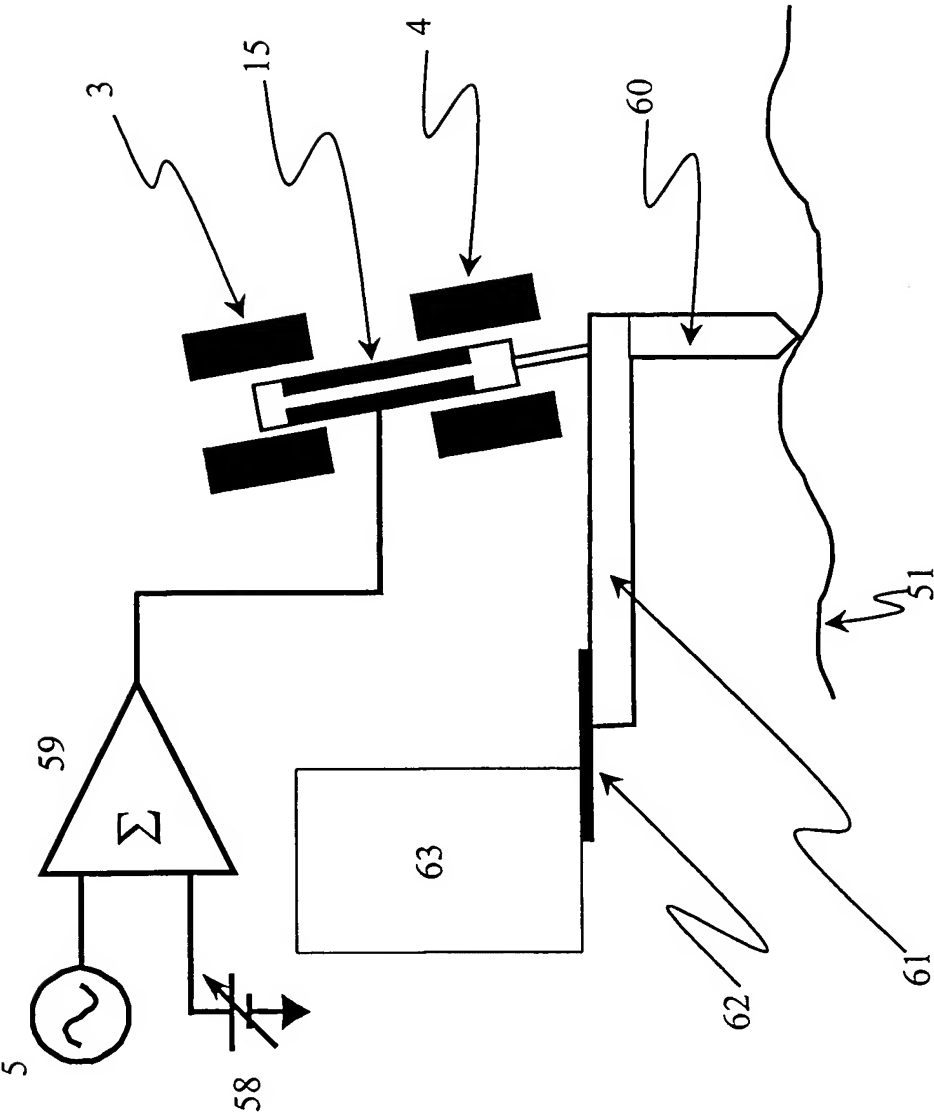
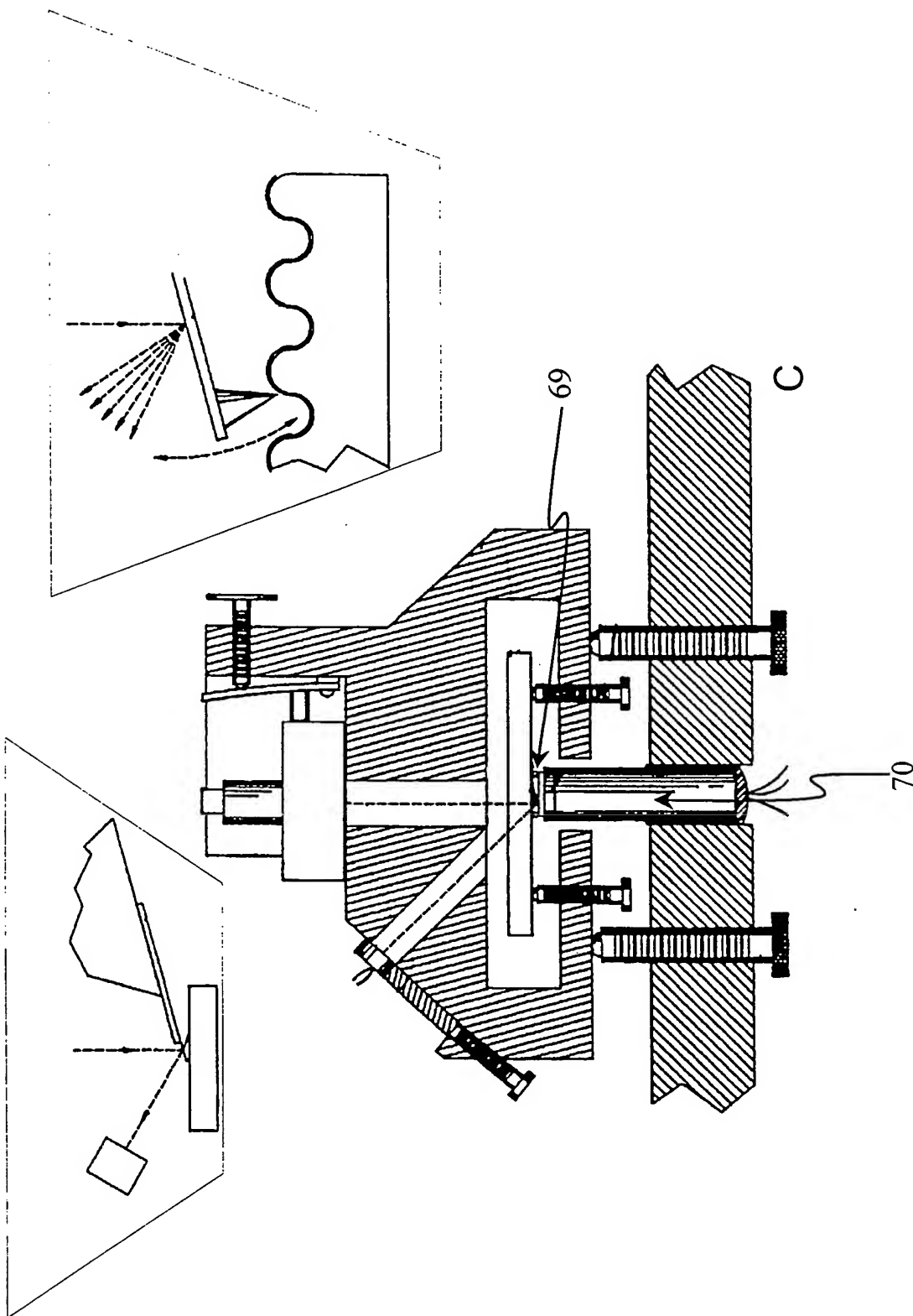
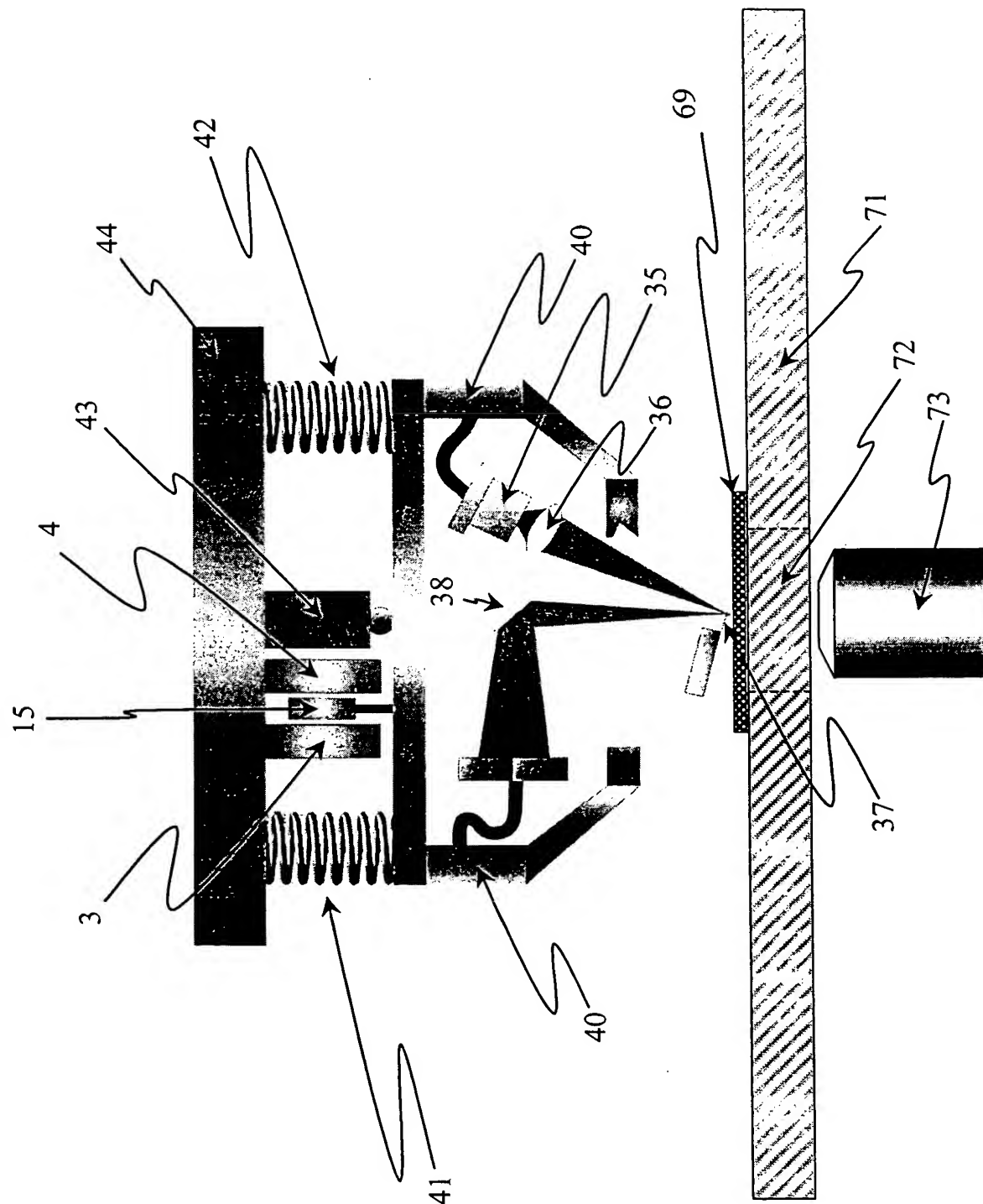


FIG.17





**FIG. 19**

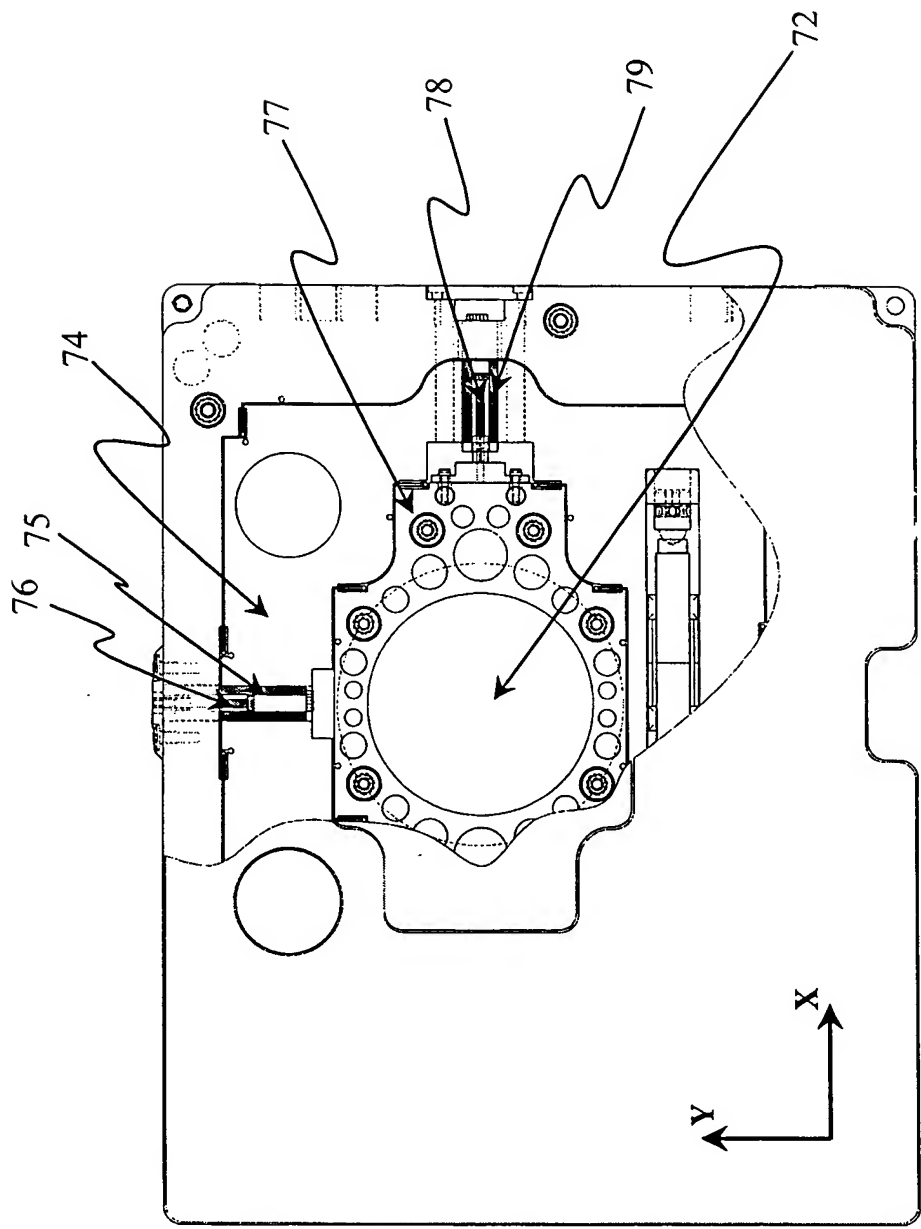


FIG. 20

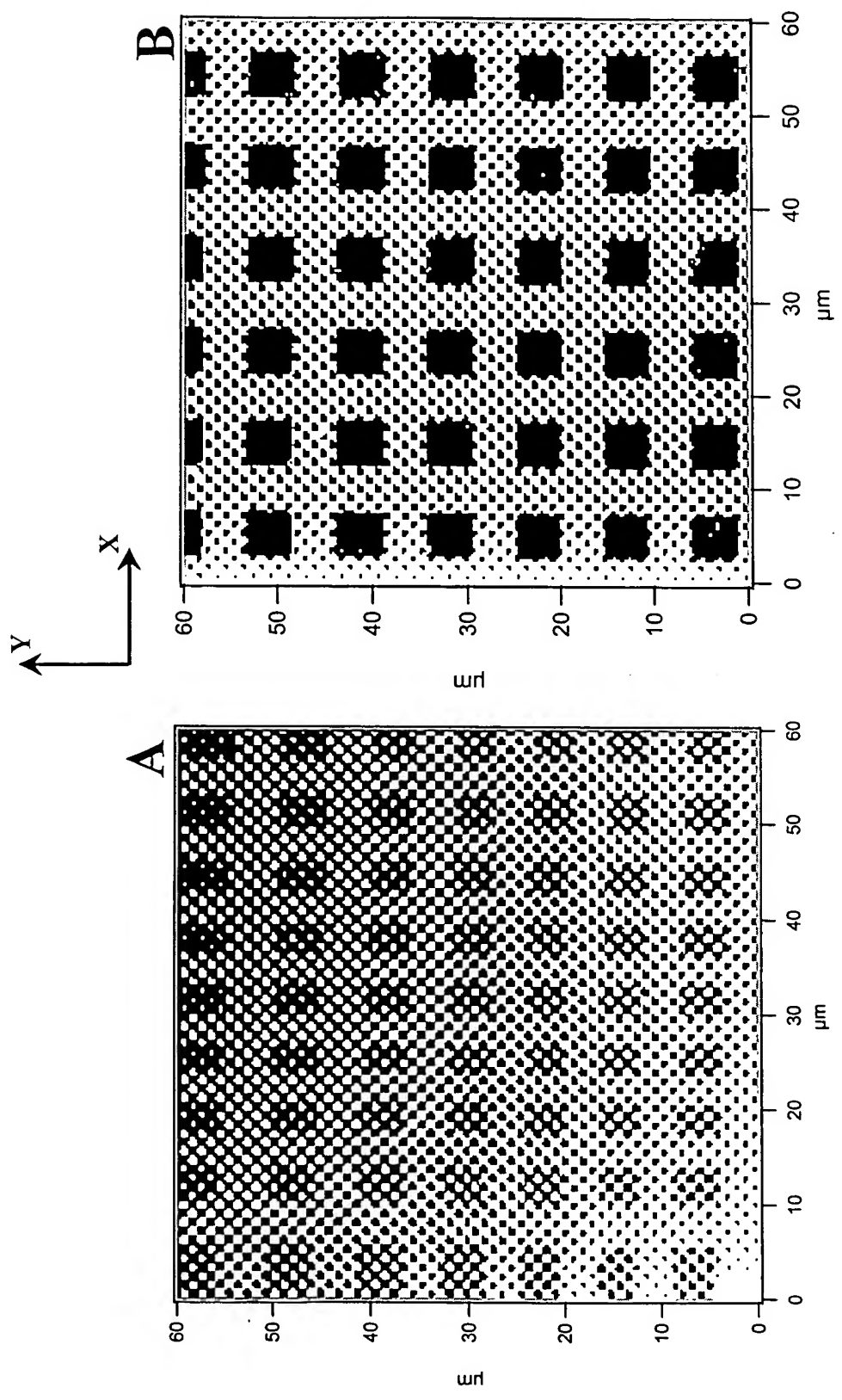


FIG. 21